## AMENDMENTS TO ABSTRACT

Disclosed is a heat exchanger of including plate finfins and tube type, which includes a plurality of the tubes fins being stacked at givenrespective intervals relative to one another, and a plurality of heat exchanger tubes penetrating the fins heat exchange between fluids flowing, respectively, inside and outside the heat exchanger tubes, through the heat exchanger tubes and the fins heat exchanger tubes and the fins heat exchanger tubes and the fins heat exchanger tubes and beam segments. The cut-raised portions associated with a bridge shape having leg and beam segments. The cut-raised portions associated with each of the heat exchanger tubes are formed located substantially only in a region of the fin satisfying the following relationship.

$$Ws = (1 - \varphi) Dp + \varphi D$$
  
  $\varphi > 0.5$ ,

where Ws is #=spread width of the cut-raised portions in a direction (column direction) extending along an end of the fin on the upstream side of the second fluid, and D is ## outer diameter of the heat exchanger tube. Dp is ##-alignment pitch of the heat exchanger tubes in the column direction.